

AP1000DCDFileNPEm Resource

From: Adams II, Samuel L. [adamssl@westinghouse.com]
Sent: Tuesday, April 29, 2008 9:48 AM
To: Perry Buckberg
Cc: Rhonda Carmon
Subject: FW: RAI-SRP 10.4.7-SBPA-01
Attachments: AP1000_ Section 10.4.7 RAI 4_28_08.doc

Hi Perry,

I acknowledge receipt of the attached RAI on SRP Section 10.4.7.

I will let you know as soon as possible if a clarification call is needed.

Thanks.

Sam

From: Perry Buckberg [mailto:Perry.Buckberg@nrc.gov]
Sent: Monday, April 28, 2008 3:00 PM
To: Adams II, Samuel L.
Cc: David Jaffe; Eileen McKenna; John Segala
Subject: RAI-SRP 10.4.7-SBPA-01

Sam,

Attached is DCD RAI-SRP 10.4.7-SBPA-01. Please acknowledge receipt of the attached and let me know ASAP if a phone conference will be needed.

Thanks,

Perry Buckberg

Senior Project Manager
Nuclear Regulatory Commission
Office of New Reactors
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Subject: FW: RAI-SRP 10.4.7-SBPA-01
Sent Date: 4/29/2008 9:47:53 AM
Received Date: 4/29/2008 9:47:56 AM
From: Adams II, Samuel L.

Created By: adamssl@westinghouse.com

Recipients:

"Rhonda Carmon" <Rhonda.Carmon@nrc.gov>

Tracking Status: None

"Perry Buckberg" <Perry.Buckberg@nrc.gov>

Tracking Status: None

Post Office: SWEC9910.w-intra.net

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Options

Priority: Standard

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RAI-SRP 10.4.7-SBPA-01

In TR-86, "Alternate Steam and Power Conversion Design," APP-GW-GLN-018, Revision 1, the applicant illustrates drawing changes on DCD Figure 10.4.7-1 (sheet 2 of 4) to the condensate and feedwater system (Section 10.4.7 in the AP1000 DCD). On Figure 10.4.7-1 (sheet 2 of 4), "Condensate and Feedwater System Piping and Instrumentation Diagram," Revision 14, the ME 05 "Deaerator Feedwater Heater & Storage Tank" is shown as having piping from steam generator blowdown heat exchangers A and B, feed pump min flow, moisture separator reheater shell drain, heater 6 drain, extraction steam, and high pressure heater vents connected to it. However, on Figure 10.4.7-1 (sheet 2 of 4) Revision 16, ME 05 has been removed, with no justification for this change provided in TR-86, and the piping that was connected to it is shown schematically as being connected to the deaerator storage tank.

Also, Figure 10.4.7-1 (sheet 3 of 4) under DCD Revision 16 no longer shows ME 05 "Deaerator Feedwater Heater & Storage Tank." Furthermore, the deaerator is described as being "a tray type, horizontal shell, direct contact heater located on top of a horizontal storage tank" in Section 10.4.7.2.2, "Component Description" of the DCD

Since, the deaerator/derator storage tank design in DCD Revision 16 differs from the approved design and from the component description provided in the DCD, explain why revised DCD Figures 10.4.7-1 (sheets 2 & 3) no longer show ME 05 the "Deaerator Feedwater Heater & Storage Tank", and provide justification as to why the proposed change (removal of ME05) is acceptable. Also, describe what impact the proposed change has on the component description in DCD Section 10.4.7.2.2, and on the operation of the condensate and feedwater, and startup feedwater systems.

